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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

07/01/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

CALLAWAY, JADE R

ART UNIT PAPER NUMBER

2872

DATE MAILED: 07/01/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
Ī	10/580,819	05/26/2006	Takuya Tsukagoshi	128159	7408

TITLE OF INVENTION: HOLOGRAPHIC MEMORY REPRODUCTION METHOD AND APPARATUS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/01/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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indicated unless correct maintenance fee notifica	ed below or directed oth	nerwise in Block 1, by (a	a) specifying a new c	orres	pondence address;	and/or	(b) indicating a sepa	rate "FEE ADD	RESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) 25944 7590 07/01/2009				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, make its own certificate of mailing or transmission.					ompanying
OLIFF & BER P.O. BOX 3208. ALEXANDRIA		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.							
								(Depo	ositor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATIO	ON NO.
10/580,819 TITLE OF INVENTION	05/26/2006 I: HOLOGRAPHIC MEN	MORY REPRODUCTION	Takuya Tsukagosl N METHOD AND AF		AATUS		128159	7408	
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	OUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE I	UE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	10/01/2	:009
EXAMINER		ART UNIT	CLASS-SUBCLASS						
CALLAWA	AY, JADE R	2872	359-024000		l				
"Fee Address" ind PTO/SB/47; Rev 03-(Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form	data will appear on t	rnativ single or a tattor ll be or typ he pa g an	vely, e firm (having as a ggent) and the nam rneys or agents. If printed. be) atent. If an assign assignment.	membes of uno name	er a 2 p to lee is 3 dentified below, the de	ocument has bee	n filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Co	orporati	on or other private gro	oup entity 🚨 G	overnment
☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). 						
• •	s SMALL ENTITY state				-		ΠΤΥ status. See 37 Cl	· - ····	 ner party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.	()	appaream, a regi		orney or agent, or th	a abargace of our	
Authorized Signature					Date				_
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10/580,819 05/26/2006		Takuya Tsukagoshi	128159	7408		
25944 75	90 07/01/2009		EXAM	INER		
OLIFF & BERRI	DGE, PLC		CALLAWAY, JADE R			
P.O. BOX 320850			ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	'A 22320-4850		2872			
		DATE MAILED: 07/01/2009				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 320 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 320 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/580,819	TSUKAGOSHI ET AL.				
Notice of Allowability	Examiner	Art Unit				
	JADE R. CALLAWAY	2872				
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS				
1. This communication is responsive to 4/10/09.						
2. ⊠ The allowed claim(s) is/are <u>1-33</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements				
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached				
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT						
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☒ Examiner's Amendr 8. ☒ Examiner's Stateme 9. ☐ Other	(PTO-413), re				

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DETAILED ACTION

Response to Amendment

1. The amendments to the claims, in the response submitted 4/10/09, are acknowledged and accepted.

Election/Restrictions

2. Claims 1-2, 6-20, 24-33 are allowable. Claims 3-5 and 21-23, previously withdrawn from consideration as a result of a restriction requirement, require all the limitations of an allowable claim. Pursuant to the procedures set forth in MPEP § 821.04(a), the restriction requirement among species I-IV, as set forth in the Office action mailed on 6/26/08, is hereby withdrawn and claims 3-5 and 21-23 are hereby rejoined and fully examined for patentability under 37 CFR 1.104. In view of the withdrawal of the restriction requirement, applicant(s) are advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Once the restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. See *In re Ziegler*, 443 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided

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by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Scott Schulte on 6/17/09.

The application has been amended as follows:

In the abstract, line 3 delete "is provided"

Claim 1, line 5 replace "the Bragg condition" with --a Bragg condition--

Claim 1, lines 5-6 replace "at least one of the wavelength" with --at least one of a wavelength--

Claim 1, line 7, replace "the interference fringes" with --interference fringes--

Claim 1, lines 7-8 replace "the reproduction position servo-control" with --a reproduction position servo-control--

Claim 13, lines 2-3 replace "wherein a reflected transmission beam of the reproduction beam reflected after transmitting the recording layer" with --wherein the servo beam is a reflected transmission beam of the reproduction beam reflected after transmitting the recording layer--

Claim 19, line 7, replace "the Bragg condition" with --a Bragg condition--

Claim 19, line 7, replace "at least one of the wavelength" with --at least one of a wavelength--

Claim 19, lines 8-9 replace "the interference fringes" with --interference fringes--

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Claim 19, line 9 replace "the reproduction position servo-control" with --a reproduction position servo-control--

Claim 30, line 3, replace "forms the servo beams by splitting part of the reproduction beam" with --forms the servo beams by splitting part of the reproduction beam transmitting the recording layer--

Allowable Subject Matter

- 4. Claims 1-33 are allowed.
- 5. Claims 1 and 19 are allowable over the prior art of record for at least the reason that even though the prior art discloses a holographic memory reproduction apparatus and method in which a diffraction beam is generated in a recording layer of a holographic recording medium by projecting a reproduction beam onto interference fringes formed by projecting an object beam an a reference beam onto the recording layer to thereby reproduce information from the diffraction beam, the prior art fails to teach or reasonably suggest a servo beam which satisfies a Bragg condition while at least one of a wavelength incident angle, and incident direction thereof is different from that of the reproduction beam is projected onto interference fringes, whereby a reproduction position servo-control of the holographic recording medium is performed by means of the diffraction beam generated by the projection of the servo beam.

 Claims 2-18, 20-33 are dependent on claims 1 and 19 and are allowable for at least the same reasons claims 1 and 19 are allowable.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JADE R. CALLAWAY whose telephone number is (571)272-8199. The examiner can normally be reached on Monday to Friday 6:00 am - 3:30 pm est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephone B. Allen can be reached on 571-272-2434. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JRC /JADE R. CALLAWAY/ Examiner, Art Unit 2872 /Stephone B. Allen/ Supervisory Patent Examiner Art Unit 2872